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| APPLICATION NO.                           | FILING DATE           |               | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|---|-----------------------|---------------|----------------------|---------------------|------------------|--|
| 10/045,661                                | 10/045,661 10/23/2001 |               | James J. Alwan       | 5957-16203 2453     |                  |  |
| 35690                                     | 7590                  | 05/17/2006    |                      | EXAMINER            |                  |  |
|   |                       | OD, KIVLIN, K | TRAN, DZUNG D        |                     |                  |  |
| 700 LAVACA, SUITE 800<br>AUSTIN, TX 78701 |                       |               |                      | ART UNIT            | PAPER NUMBER     |  |
|   |                       |               | 2612                 |                     |                  |  |

DATE MAILED: 05/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

|   |  |   |  |   | 1 / /        |  |  |  |  |
|---|--|---|--|---|--------------|--|--|--|--|
|   |  | Application   | on No.   | Applicant(s)  | W            |  |  |  |  |
|   |  | 10/045,66   | 1  | ALWAN ET AL.  |              |  |  |  |  |
|   | Office Action Summary  | Examiner  |  | Art Unit  |              |  |  |  |  |
|   |  | Dzung D.  | Tran ·   | 2613  |              |  |  |  |  |
|   | The MAILING DATE of this communi   | cation appears on the   | cover sheet with the c   | orrespondence ad  | dress        |  |  |  |  |
| Period fo   |  | 20 050 V 10 05T T   | O EVDIDE AMONTU  | C) OD TUUDTY (2)  | 0) DAVC      |  |  |  |  |
| WHIC<br>- Exter<br>after<br>- If NO<br>- Failu<br>Any | ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE Mansions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this commin period for reply is specified above, the maximum stare to reply within the set or extended period for reply reply received by the Office later than three months are patent term adjustment. See 37 CFR 1.704(b). | AILING DATE OF TH<br>of 37 CFR 1.136(a). In no evenunication.<br>tutory period will apply and wi<br>will, by statute, cause the apply | IIS COMMUNICATION<br>ent, however, may a reply be tim<br>II expire SIX (6) MONTHS from<br>ication to become ABANDONE | <ol> <li>lely filed</li> <li>the mailing date of this co</li> <li>(35 U.S.C. § 133).</li> </ol> |              |  |  |  |  |
| Status  |  |   |  |   |              |  |  |  |  |
| 1) 又  | Responsive to communication(s) file  | d on 16 February 200  | <u>06</u> .  |   |              |  |  |  |  |
|   | This action is <b>FINAL</b> . 2b)⊠ This action is non-final.   |   |  |   |              |  |  |  |  |
| 3)  | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is  |   |  |   |              |  |  |  |  |
|   | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  |   |  |   |              |  |  |  |  |
| Dispositi   | ion of Claims  |   |  | •   |              |  |  |  |  |
| •   | 4)⊠ Claim(s) <u>1-4,7,8,11-23 and 26-45</u> is/are pending in the application.   |   |  |   |              |  |  |  |  |
| •   | 4a) Of the above claim(s) is/are withdrawn from consideration.   |   |  |   |              |  |  |  |  |
|   | <ul> <li>✓ Claim(s) 1-4,7,8,11-14,23 and 26-45 is/are allowed.</li> </ul>  |   |  |   |              |  |  |  |  |
| •   | Claim(s) <u>15-18 and 21</u> is/are rejected.  |   |  |   |              |  |  |  |  |
| 7) 🖂  | Claim(s) <u>19, 20 and 22</u> is/are objected to.  |   |  |   |              |  |  |  |  |
| 8)  | Claim(s) are subject to restric  | tion and/or election re   | equirement.  |   |              |  |  |  |  |
| Applicati   | ion Papers   |   |  |   |              |  |  |  |  |
|   | The specification is objected to by the  | e Examiner  |  |   |              |  |  |  |  |
| ,   | The drawing(s) filed on is/are:  |   | objected to by the   | Examiner.   |              |  |  |  |  |
| ,   | Applicant may not request that any object  |   |  |   |              |  |  |  |  |
|   | Replacement drawing sheet(s) including   |   |  |   | FR 1.121(d). |  |  |  |  |
| 11)[  | The oath or declaration is objected to   | by the Examiner. No   | ote the attached Office  | Action or form PT   | O-152.       |  |  |  |  |
| Priority (  | under 35 U.S.C. § 119  |   |  |   |              |  |  |  |  |
|   | Acknowledgment is made of a claim of All b) Some * c) None of:   | for foreign priority un   | der 35 U.S.C. § 119(a  | )-(d) or (f).   |              |  |  |  |  |
| ,   | 1. Certified copies of the priority  | documents have bee  | n received.  |   |              |  |  |  |  |
|   | 2. Certified copies of the priority documents have been received in Application No   |   |  |   |              |  |  |  |  |
|   | 3. Copies of the certified copies  | of the priority docume  | ents have been receive   | ed in this National   | Stage        |  |  |  |  |
|   | application from the Internatio  | •   |  |   |              |  |  |  |  |
| * 9   | See the attached detailed Office action  | n for a list of the certi   | fied copies not receive  | ed.   |              |  |  |  |  |
|   |  |   |  |   |              |  |  |  |  |
|   |  |   |  |   |              |  |  |  |  |
| Attachmen   | • •  |   |  |   |              |  |  |  |  |
|   | ce of References Cited (PTO-892)<br>ce of Draftsperson's Patent Drawing Review (P  | TO-948)   | 4) Interview Summary Paper No(s)/Mail D  | (P10-413)<br>ate  |              |  |  |  |  |
| 3) Infor  | mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date   |   | 5) Notice of Informal F 6) Other:  |   | )-152)       |  |  |  |  |

Application/Control Number: 10/045,661 Page 2

Art Unit: 2613

#### **DETAILED ACTION**

1. The indicated allowability of claims 15-18 and 21 are withdrawn in view of the following rejections as follow.

## Specification

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 15-18 and 21 are rejected under 35 U.S.C. 1O2(e) as being anticipated by Traa U.S. patent no. 6,222,660.

Regarding claim 15, Traa discloses a method for increasing an operation range of a photodiode detector for use in a communication system, the method comprising:

a first node having a photodiode detector 10 (col. 2, line 40) configured to monitoring the receive power level of an incoming communication beam (see figure 1);

a current sense module (elements 16, 14, col. 2, line 30) configured to sense a incoming photocurrent to the APD 10 (col. 2, line 36);

Traa further discloses in col. 3, lines 1-6, the obtaining anoptimum bias voltage for the APD by controlling the attenuator base on a family of constant optical power level curves are generated (see figure 2), with each optical power level being determined by the programmable optical attenuator 26 in response to the attenuation command from the controller 18 (equivalent to first attenuation control) is configured to disable (e.g. decrease the attenuation level to minimum) and enable (e.g. increase the attenuation level to maximum) the first optical attenuator to keep the power level of the incoming communication beam to within the operational range of the photodiode detector.

Regarding claims 17 and 18, Traa discloses a first optical attenuator 26 (col. 2, line 59) coupled to the first node and configured to attenuate the incoming communication beam prior to it reaching the photodiode detector 10 (see figure 1) and a first attenuation control module (e.g. controller 18, col. 2, line 65) configured to control the first optical attenuator to maintain a power level of the incoming communication beam to within an operational range of the photodiode detector (col. 2, lines 65-67).

Regarding claims 16 and 21, Traa discloses a method for controlling incoming laser power in a communication system which includes a first node and a second node where the second node transmits a communication beam to the first node and where the first node includes a first attenuator 26 (col. 2, line 59), the method comprising:

a photodiode detector 10 (col. 2, line 40) configured to receive an incoming communication beam (see figure 1);

Application/Control Number: 10/045,661 Page 4

Art Unit: 2613

Traa further discloses in col. 3, lines 1-6, the obtaining an optimum bias voltage for the APD by controlling the attenuator base on a family of constant optical power level curves are generated (see figure 2), with each optical power level being determined by the programmable optical attenuator 26 in response to the attenuation command from the controller 18 (equivalent to first attenuation control) is configured to disable (e.g. decrease the attenuation level to minimum) and enable (e.g. increase the attenuation level to maximum) the first optical attenuator to keep the power level of the incoming communication beam to within the operational range of the photodiode detector.

- 4. Claims 19-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 1-4, 7, 8, 11-14, 23, and 26-45 are allowed.

### Response to Arguments

6. Applicant's arguments with respect to claims 15-18 and 21 have been considered but are most in view of the new ground(s) of rejection.

Application/Control Number: 10/045,661

Art Unit: 2613

#### Conclusion

Page 5

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dzung D Tran whose telephone number is (571) 272-3025. The examiner can normally be reached on 9:00 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dzung Tran

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